



CHEMICAL ACCIDENT RECONSTRUCTION SERVICES, INC.

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The following list summarizes areas of expertise of Dr. Michael Fox, his associates, and his company, Chemical Accident Reconstruction Services, Inc. See the company web site for examples of projects and cases in specific areas.

Acids	Drain Openers – Acid, Alkali	Nitric Oxide
Aerosols	Drinking Water	OSHA
Aerosol Containers	Drums - 55 gal - 85 gal	Oxidizers
Aerosol Filling Plants	Ductile Iron Pipe	Oxygen
Aerosol Fires and Explosions	Dust	P2S5
Aerosol Labels	Electric Arcing	Packaging (Chemicals)
Aerosol Propellants	Electric Power Industry	Paint Chemistry
Aerosol Punctures	Electrochemical Potential	PEX
Aerosol Super Can	Electrochemistry	Phosphorous Pentasulfide
Aerosol Tire Inflators	EPA Regulations	Physical Chemistry
Alkalis	Ethanol	Plastics
Aluminum	Ethylene	Polyethylene
Aluminum Powder	Explosions	Pool Chemicals
Ammonium Nitrate	Explosives/Rocket Fuel	Portable Butane Stoves
Ammonium Perchlorate	Failure Analysis	Potassium Hydroxide
Ammonium Sulfate	Fiberglass Reinforced Plastic (FRP)	Powdered Metals
Analytical Chemistry	FIFRA	Process Hazard Analysis
Appliances	Fire Computer Modeling (CFAST and FDS)	Propane
Biofuel	Fire Cause & Origin	Puncture Resistant Super Can
Boiler Water Treatment	Flammable Liquids	Pyrotechnics
Boiling Water Nuclear Reactors (BWRs)	Flat-Tire Aerosols	RCRA/ SARA/ EPA Regulations
Bug Bombs	Fuel Farming	Right-to-Know Laws
Burns (skin)	Gas Cylinders	Salt Baths
Butane	Gas Research Institute	Scanning Electron Microscopy (SEM)
Butane Cigarette Lighters	Gasoline	Shipping - Chemicals
Butanol	Gun Powder	Sodium Hydrosulfite
Butyl Alcohol	Hair Fires	Sodium Hypochlorite
BWR Water Chemistry	Hair Sprays and Hair Products	Soil Gas Sampling
Calcium Chloride	Halogenated Solvents	Solvents
Calcium Hypochlorite	Hazard Communication Standard (OSHA)	Spontaneous Combustion
Carbon Monoxide	Hazardous Chemicals	Spray Paint - Aerosols
Carbon Steel Corrosion	Hazardous Freight	Stadium Chairs
Carburetor Cleaner Fire	Hot Liquid Burns	Stainless Steel
Cellulose Insulation	Hydrochloric Acid	Static Electricity
Cement Lined Pipe	Hydrofluoric Acid (HF)	Stress Corrosion Cracking
Chemical Accident Reconstruction	Hydrogen Gas Fires and Explosions	Sulfuric Acid
Chemical Analysis	Industrial Water Treatment	Super Can
Chemical Burns - Acid and Alkali	Inhalation Exposure	Surface Chemistry
Chemical Fires and Explosions	Insect Foggers - Aerosol	Surfactants (detergent)
Chemical Labeling	Intergranular Stress Corrosion Cracking	Technology Forecasting
Chemical Legal Compliance	Ion Exchange	Toxic Chemicals
Chemical Risk Assessment and Prevention	Labeling (Chemicals)	Trichlor
Chemical Safety	MAPP Gas Cylinders	Trichloroethane (TCA, TCE)
Chlorinated Solvents	Material Safety Data Sheets	Trichloro-s-triazinetrione
Chlorine Gas	Metallurgy	TRIFs
Coal-Fired Power Plants	Methane	Underground Tanks
Cooling Water Treatment	Methanol	Vehicle Fires
Copper Corrosion	Methylene Chloride	Warnings and Warning Labels
Corrosion Science	Model Car Fire	Water Chemistry
Crevice Chemistry	MTBE	Water Contamination
Deicers	Natural Gas	Welding
DOT Regulations	NFPA Codes (921, 54, 58, etc.)	Wire Rope Cable
	Nitric Acid	Zirconium